

CI	LA.	<u>M</u>	<u> 15:</u>
			_

_

- 1. An apparatus for processing multiple data streams, the apparatus comprising:
 - (a) a signal processing arrangement having a first input and a second input associated therewith:
 - (b) a first switch connected to the first input and having a first switch output, the first switch for passing signals from the first input to the first switch output in response to an enable signal applied to an enable input associated with the first switch;
 - (c) a second switch connected to the second input and having a second switch output, the second switch for passing signals from the second input to the second switch output in response to the enable signal applied to an enable input associated with the second switch;
 - (d) a data stream junction connected to the first switch output and the second switch output and having a single junction output connected to the signal processing arrangement; and
 - (e) a controller for selectively applying the enable signal to the enable input of one of the first switch and second switch so as to enable one of said switches to pass signals from the respective input to the respective switch output to be applied to the signal processing arrangement through the data stream junction.

The apparatus of claim 1\wherein: 1 2. 2 (a) 3 4 5 (b) 6 7 8

- - the first input and first switch receives a first plurality of channels and the second input and second switch receives a second plurality of channels different from the first plurality of channels; and
 - the controller includes a processor for receiving a channel select input identifying a particular channel to be processed from among the first and second plurality of channels and, in response to the channel select input, for applying the enable signal to the one of said first Awitch and said second switch which receives the particular channel, and for dontrolling the operation of the signal processing arrangement to produce a channel output from the signals which pass through the switch receiving the enable signal.

3. The apparatus of claim 2 wherein:

- the controller further includes a memory device associated with the processor, for (a) each different channel select input the memory device storing, for each different channel select input, signal processing information unique to the respective channel associated with the channel select input and signal input information indicating on which input the channel is received; and
- the processor responds to the channel select input by retrieving the signal input (b) information associated with the particular channel and by applying the enable signal to the switch associated with the input on which the channel is received.

22

16

17

18

19

20

21

1	4.	The apparatus of claim wherein the signal processing arrangement includes:	
2		(a) a full rate tuner and down converter;	
3		(b) a demodulator;	
4		(c) a forward error correction decoder; and	
5		(d) a demultiplexer/format decoder.	
6			
7	5.	The apparatus of claim 1 wherein the signal stream junction comprises:	
8		(a) an impedance matching amplifier.	
			
	6.	apparatus of claim 1 wherein:	
<u>L</u>		(a) the first input is connected to receive signals from a first antenna; and	
		(b) the second input is connected to receive signals from a second antenna.	
13			
	7.	The apparatus of claim 1 wherein:	
T C		(a) the first input receives signals in a first frequency band having a plurality of	
16		carrier frequencies; and	
17		(b) the second input receives signals in substantially the first frequency band on	
18		substantially the same carrier frequencies as those received by the first input.	
19			
20	8.	An apparatus for processing multiple data streams the apparatus comprising:	
21		(a) a receiver for processing a single data stream to provide a receiver output;	
22		(b) a plurality of input paths, each for carrying a data stream to the receiver;	

20

21

and for each channel identifier the memory device further storing signal

processing information unique to a particular one of the channels, and input

1		information indicating on which input path the data stream including the particular
2		channel is carried; and
3		(b) the processor responds to the channel select input by retrieving the signal
4		processing information associated with the respective channel and applying the
5		enable signal to the switch associated with the data stream in which the channel
6	•	is contained.
7		
8	11.	The apparatus of claim 8 wherein the signal processing arrangement includes:
3		(a) a full rate tuner and down converter;
io M		(b) a demodulator; and
ng na ma en		(c) a forward error correction decoder.
	12.	The apparatus of claim 8 further comprising:
14		(a) an impedance matching amplifier adapted to receive signals from each input path
13		and apply signals from one of said paths to the receiver at a matched impedance.
16		
17	13.	The apparatus of claim 8 wherein:
18		(a) each data stream comprises signals from a different antenna.
19		
20	14.	The apparatus of claim 8 wherein:
21		(a) each data stream comprises signals in substantially a first frequency band having
22		a plurality of carrier frequencies.

22

receiver.

The method of claim 17 further comprising the steps of: 1 18. utilizing the channel identifier of the desired channel to recall from a memory 2 (a) 3 storage device signal processing information unique to the desired channel and which may be utilized by the receiver to produce the desired channel output from 4 5 the data stream which includes the desired channel; and (b) controlling the received with the signal processing information to produce the 6 7 desired channel output. 8 19. The method of claim 16 wherein: each data stream comprises signals in substantially a first frequency band having (a) a plurality of carrier frequencies. 20. The method of claim 19 wherein: (a) each data stream utilizes substantially the same carrier frequencies.